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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,702	06/04/2001	Jong-Cheol Bae	678-670(P9675)	4963

7590 03/25/2004

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EXAMINER

DEAN, RAYMOND S

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 03/25/2004

3

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/873,702

Applicant(s)

BAE, JONG-CHEOL

Examiner

Raymond S Dean

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 8 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 - 8 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Objections

1. Claim 8 is objected to because of the following informalities: the word "not" is missing from the first phrase "further comprising determining if a display state is active" examiner assumes that the applicant means "further comprising determining if a display state is not active". Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 – 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jung et al. (6,097,949) in view of Lietsalmi et al. (US 6,370,391 B1).

Regarding Claim 1, Jung teaches a method of transmitting broadcasting information to a mobile station by utilizing a cell broadcasting service (CBS) (Column 2 lines 23 - 37), and transmitting the generated message by utilizing the CBS (Column 2 lines 23 – 37).

Jung does not specifically teach a method comprising: converting broadcasting information to a predetermined message code according to type and contents of the

broadcasting information and generating a message having a header indicating the type of the broadcasting information and the predetermined message code in a format predetermined depending on the type of the broadcasting information.

Lietsalmi teaches a method comprising: converting broadcasting information to a predetermined message code according to type and contents of the broadcasting information (Column 2 lines 11 – 24, Column 2 lines 33 – 67, the contents of the broadcasting information are coded in the S-BCCH) and generating a message having a header indicating the type of the broadcasting information and the predetermined message code in a format predetermined depending on the type of the broadcasting information (Column 2 lines 46 – 67, the S-BCCH is the header comprising different message codes, each message code corresponds to a particular content of broadcast information).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the S-BCCH index method taught in Lietsalmi in the CBS system of Jung for the purposes of facilitating the ease of use of said CBS for both users and service providers and increasing the speed and efficiency of user operations.

Regarding Claim 2, Jung in view of Lietsalmi teaches all of the claimed limitations recited in Claim 1. Lietsalmi further teaches wherein if the broadcasting information is weather information, the predetermined message code includes an area code, a date code, a time code, and a weather code (Column 2 lines 11 – 24, the S-BCCH can be coded to reflect various contents, since arrival and departure content encompasses area content there is an inherent coding of said area content).

Regarding Claim 3, Jung teaches a method of receiving broadcasting information in a mobile station by utilizing a cell broadcasting service (CBS) (Column 2 lines 23 - 37) and recovering broadcasting information by comparing a message code of the CBS message with a predetermined code (Figure 3, Column 3 lines 1 – 20, Column 3 lines 26 – 42).

Jung does not specifically teach a method comprising: checking a header of a CBS message upon receipt of the CBS message; and a code that corresponds to type and contents indicated by the header of the CBS message, if the header indicates there is a coded message.

Lietsalmi teaches a method comprising: checking a header of a CBS message upon receipt of the CBS message (Column 2 lines 46 – 67, the S-BCCH is the header) and a code corresponding to type and contents indicated by the header of the CBS message, if the header indicates there is a coded message (Column 2 lines 11 – 24, Column 2 lines 33 – 67, the contents of the broadcasting information are coded in the S-BCCH).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the S-BCCH index and header method taught above in Lietsalmi in the CBS system of Jung for the purposes of increasing the speed and efficiency of user operations and facilitating the ease of use of said CBS for both users and service providers.

Regarding Claim 4, Jung in view of Lietsalmi teaches all of the claimed limitations recited in Claim 3. Lietsalmi further teaches wherein if the broadcasting information is

weather information, the message code includes an area code, a date code, a time code, and a weather code (Column 2 lines 11 – 24, the S-BCCH can be coded to reflect various contents, since arrival and departure content encompasses area content there is an inherent coding of said area content).

Regarding Claim 5, Jung teaches a method of transmitting and receiving broadcasting information by a cell broadcasting service (CBS) in a mobile telecommunication system (Column 2 lines 23 - 37) and recovering broadcasting information by comparing a message code of the CBS message with a predetermined code (Figure 3, Column 3 lines 1 – 20, Column 3 lines 26 – 42).

Jung does not specifically teach converting broadcasting information to a predetermined message code according to type and contents of the broadcasting information; generating a message having a header indicating the type of the broadcasting information and the predetermined message code in a format predetermined depending on the type of the broadcasting information; transmitting the generated message by utilizing the CBS; receiving the CBS message; checking the header of the CBS message upon receipt of the CBS message in a mobile station; and a code corresponding to the type and contents indicated by the header of the CBS message, if the header indicates there is a coded message.

Lietsalmi teaches converting broadcasting information to a predetermined message code according to type and contents of the broadcasting information (Figure 10, Column 2 lines 11 – 24, Column 2 lines 33 – 67, the contents of the broadcasting information are coded in the S-BCCH) and generating a message having a header

indicating the type of the broadcasting information and the predetermined message code in a format predetermined depending on the type of the broadcasting information (Column 2 lines 46 – 67, the S-BCCH is the header comprising different message codes, each message code corresponds to a particular content of broadcast information); transmitting the generated message by utilizing the CBS (Column 2 lines 46 – 67); receiving the CBS message; checking the header of the CBS message upon receipt of the CBS message in a mobile station (Column 2 lines 46 – 67, the S-BCCH is the header); and a code corresponding to the type and contents indicated by the header of the CBS message, if the header indicates there is a coded message (Column 2 lines 11 – 24, Column 2 lines 33 – 67, the contents of the broadcasting information are coded in the S-BCCH).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the S-BCCH index and header method taught above in Lietsalmi in the CBS system of Jung for the purposes of increasing the speed and efficiency of user operations and facilitating the ease of use of said CBS for both users and service providers.

Regarding Claim 6, Jung in view of Lietsalmi teaches all of the claimed limitations recited in Claim 5. Lietsalmi further teaches wherein if the broadcasting information is weather information, the message code includes an area code, a date code, a time code, and a weather code (Column 2 lines 11 – 24, the S-BCCH can be coded to reflect various contents, since arrival and departure content encompasses area content there is an inherent coding of said area content).

Regarding Claim 7, Lietsalmi teaches all of the claimed limitations recited in Claim 6. Jung further teaches determining if a display state is active, and displaying the CBS message if the display state is active (Column 3 lines 26 – 42, the display state will become active for those mobile devices in Group A thus there is an inherent determination of said display state).

Regarding Claim 8, Lietsalmi teaches all of the claimed limitations recited in Claim 6. Jung further teaches determining if a display state is not active, and store the CBS message if the display state is not active (Column 3 lines 26 – 46, the display state will not become active for those mobile devices in Group B thus there is an inherent determination of said display state, since this is a CBS message all mobile devices will simultaneously receive and store said message thus this is an inherent characteristic).

Conclusion

4. Any inquiry concerning this communication should be directed to Raymond S. Dean at telephone number (703) 305-8998.

If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung, can be reached at (703) 308-7745. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Or faxed to:

(703) 872-9314 (for Technology center 2600 only)

Art Unit: 2684

Hand – delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377

A large, stylized handwritten signature in black ink, likely belonging to the undersigned official.


NAY MAUNG
SUPERVISORY PATENT EXAMINER